

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-17 without prejudice or disclaimer to the subject matter therein.

Please cancel claim 21. Please amend claims 18 and 22 - 25 as follows.

1 - 17. (Canceled)

18. (Currently Amended) A motion compensation method for generating a predictive image of a current macroblock with reference to a motion vector of a co-located macroblock that is included in a picture different from a current picture in which the current macroblock is included and that is co-located with the current macroblock, said motion compensation method comprising:

obtaining a motion vector of a block located only in a corner of the co-located macroblock, when a co-located block is composed of a plurality of blocks for which motion compensation has been performed, the co-located block being co-located with a current block included in the current macroblock and being included in the co-located macroblock; [[and]]

judging whether a size of the obtained motion vector is within a predetermined range or not; and

performing motion compensation for the current block to generate a predictive image of the current block, by using the obtained motion vector based on a result of said judging.

19. (Previously Presented) The motion compensation method according to claim 18, wherein in said performing of the motion compensation, when a size of the obtained motion vector is within a predetermined range, the predictive image of the current block is generated by setting the motion vector of the current block to "0", and

when the size of the obtained motion vector is beyond the predetermined range, a motion vector of the current block is determined using a motion vector of an adjacent macroblock which

is located adjacent to the current macroblock, and the predictive image of the current block is generated by using the determined motion vector.

20. (Previously Presented) The motion compensation method according to claim 18, wherein a size of the current macroblock and the co-located macroblock is 16 pixels x 16 pixels,

a size of the current block is 8 pixels x 8 pixels, and

a size of each of the plurality of blocks which are included in the co-located macroblock and for which motion compensation has been performed is 4 pixels x 4 pixels.

21. (Canceled)

22. (Currently Amended) A motion compensation apparatus which generates a predictive image of a current macroblock with reference to a motion vector of a co-located macroblock that is included in a picture different from a current picture in which the current macroblock is included and that is co-located with the current macroblock, said motion compensation apparatus comprising:

a motion vector obtaining unit operable to obtain a motion vector of a block located only in a corner of the co-located macroblock, when a co-located block is composed of a plurality of blocks for which motion compensation has been performed, the co-located block being co-located with a current block included in the current macroblock and being included in the co-located macroblock; [[and]]

a judging unit operable to judge whether a size of the obtained motion vector is within a predetermined range or not; and

a motion compensation unit operable to perform motion compensation for the current block to generate a predictive image of the current block included in the current macroblock, by using the motion vector obtained by said motion vector obtaining unit based on a result of said judging unit.

23. (Currently Amended) A computer readable recording medium in which a program is recorded, the program performing motion compensation for an image signal, said program causing a computer to execute:

obtaining a motion vector of a block located only in a corner of a co-located macroblock, when a co-located block is composed of a plurality of blocks for which motion compensation has been performed, the co-located macroblock being included in a picture different from a current[[,]] picture in which a current block included in a current macroblock is included and being co-located with the current macroblock, and the co-located block being included in the picture in which the co-located ~~macrolock~~macroblock is included and being co-located with the current block; [[and]]

judging whether a size of the obtained motion vector is within a predetermined range or not; and

performing motion compensation for the current block to generate a predictive image of the current block, ~~by using the obtained motion vector based on a result of said judging.~~

24. (Currently Amended) An integrated circuit which generates a predictive image of a current macroblock with reference to a motion vector of a co-located macroblock that is included in a picture different from a current picture in which the current macroblock is included and that is co-located with the current macroblock, said ~~motion compensation apparatus-integrated circuit~~ comprising:

a motion vector obtaining unit operable to obtain a motion vector of a block located only in a corner of the co-located macroblock, when a co-located block is composed of a plurality of blocks for which motion compensation has been performed, the co-located block being co-located with a current block included in the current macroblock and being included in the co-located macroblock; [[and]]

a judging unit operable to judge whether a size of the obtained motion vector is within a predetermined range or not; and

a motion compensation unit operable to perform motion compensation for the current block to generate a predictive image of the current block included in the current macroblock,~~by using the motion vector obtained in said motion vector obtaining unit based on a result of said judging unit.~~

25. (Currently Amended) A mobile terminal comprising the integrated circuit according to claim 24.

26. (Previously Presented) The motion compensation method according to claim 19, wherein a size of the current macroblock and the co-located macroblock is 16 pixels x 16 pixels, a size of the current block is 8 pixels x 8 pixels, and a size of each of the plurality of blocks which are included in the co-located macroblock and for which motion compensation has been performed is 4 pixels x 4 pixels.